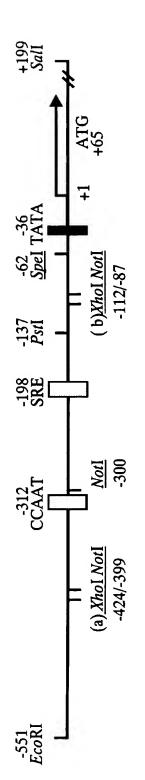
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Fig.1

| 1   | GAATTCATGG | TGTTTTGATC | ATTTTAAATT | TTTATATGGC | GGGTGGTGGG | CAACTCGCTT | 60  |
|-----|------------|------------|------------|------------|------------|------------|-----|
| 60  | CCGGGCAACT | CGCTTACCGA | TTACGTTAGG | GCTGATATTT | ACGTAAAAAT | CGTCAAGGGA | 120 |
| 121 | TGCAAGACCA | AAGTAGTAAA | ACCCCGGAGT | CAACAGCATC | CAAGCCCAAG | TCCTTCACGG | 180 |
| 181 | AGAAACCCCA | GCGTCCACAT | CACGAGCGAA | GGACCACCTC | TAGGCATCGG | ACGCACCATC | 240 |
| 241 | CAATTAGAAG | CAGCAAAGCG | AAACAGCCCA | AGAAAAAGGT | CGGCCCGTCG | GCCTTTTCTG | 300 |
| 301 | CAACGCTGAT | CACGGGCAGC | GATCCAACCA | ACACCCTCCA | GAGTGACTAG | GGGCGGAAAT | 360 |
| 361 | TTAAAGGGAT | TAATTTCCAC | TCAACCACAA | ATCACAGTCG | TCCCCGGTAT | TGTCCTGCAG | 420 |
| 121 | AATGCAATTT | AAACTCTTCT | GCGAATCGCT | TGGATTCCCC | GCCCCTGGCC | GTAGAGCTTA | 480 |
| 181 | AAGTATGTCC | CTTGTCGATG | CGATGTATCA | CAACATATAA | ATACTAGCAA | GGGATGCCAT | 540 |
| 541 | GCTTGGAGGA | TAGCAACCGA | CAACATCACA | TCAAGCTCTC | CCTTCTCTGA | ACAATAAACC | 600 |
| 501 | CCACAGAAGG | CATTT      |            |            |            |            | 615 |

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Fig.2



CCAAT sequence [binding factor of wide range transcription activating factor(HAP complex)]

: SRE [binding factor of transcription activating factor (AmyR) of amylolytic enzyme gene group

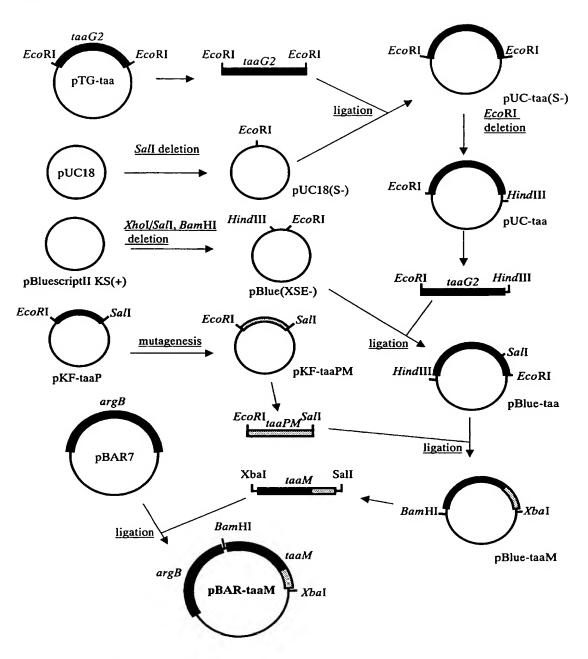
: TATA-box

+1: initiation site

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Fig.3

1



taaG2: Taka-amylase A gene

argB : omithine carbomoyltransferase gene (selection marker) taaM : Taka-amylase gene including modified promoter

<u>{</u>

Fig.4

|          | production amount of amylase (mg/L) |       |              |         |               |              |  |  |
|----------|-------------------------------------|-------|--------------|---------|---------------|--------------|--|--|
| promoter |                                     | star  | ch           | maltose |               |              |  |  |
|          | ABPU1                               | ΔagdB | ABPU1/∆ agdB | ABPU1   | $\Delta$ agdB | ABPU1/∆ agdB |  |  |
| Taa      | 68                                  | 397   | 5.8          | 81      | 572           | 7.1          |  |  |
| PCSb     | 325                                 | 332   | 1.0          | 363     | 727           | 2.0          |  |  |
| PCSPb    | 478                                 | N.D.  | _            | 462     | 1031          | 2.2          |  |  |